detector by calculating an average time between words to make the adjustment to the queue and the number of samples; and

the control circuit accessing samples from the queue and transmitting the accessed samples to the encoder until the signal from the energy detector is received.

**2**. A method for reducing bandwidth to transmit voice samples, comprising the steps of: storing voice samples in a queue;

transmitting ones of the stored voice samples from the queue;

detecting for low energy samples in the voice samples;

determining that a continuous interval of low energy samples has occurred;

stopping the transmission of ones of the stored voice samples from the queue upon the continuous interval of low energy samples being determined;

restarting the transmitting step upon the continuous interval of low energy samples ceasing:

analyzing the voice samples to determine a time period between words in the voice samples; and

adjusting a capacity of the queue to store voice samples.

**3**. The method of claim **2** further comprises the step of adjusting a duration of the continuous interval of low energy responsive to the step of analyzing the voice samples to determine a time period between words in the voice samples.

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